



Figure 2

	•	10						3	30						5()			
TCAC	GAG	CTG	CCCI	ACG:	rcci	CT	CCA	GGA <i>I</i>	AGG	SAC	CCC	GGG:	TTC	ACG	AGC:	rgc:	CCA	CGT	CG
T	s	С	P	R	P	L				T	P	G	S	R	A	A	H	V	V
									20						77	^			
		70							90 •						11				
TCTC	CAG		GGG	ACC(GTC	CAC	GAG(S	CTG(CCC.		TCC' P	TCT L	CCA Q	GGAJ E	AAG R	GAC T	CCG(R	GG V
S	К	K	G	E	G	J	•		Ŭ	•	•	-	_	*	_		_		
•		130						1	50						17	0			
TCCF	ACGI	GCT	GGC	CAC														ACG'	
Н	Ē	L	A	T	S	S	A	G	R	D	P	G	S	Ť	s	С	P	R	P
		190					•	2	10						23	0			
CTCT				an a	000		mmc	7 CC	, ,	ጥርር	CCN	උርጥ	CCT	רייר ר	ר א כ		ccc	ACC	
CTCT	rcc <i>i</i> Q			GAC T			S			A	Н	V	L	s	R	K	G	P	R
		250						2	70						29	0			
GGG	rcci	ACGA	.GCT	GCC	CAC	GTC	CTC	TCC	AGG	AAG	GGA	.ccc	CGG	GTC	CAC	GAP	CTG	ccc	AC
V	Н	E	L	P	T	s	S	P	G	R	D	P	G	s	T	N	С	P	R
								_							2.5	_			
		310							30						35				
		rcca					GGG G		ACG R	AGC A	TGC A	CCA H	CGI V	CCI L	CTC S	CAC R	GAG R	GGG G	AC H
Р	L	Q	E	G	T	P	G	3	K	A	r.	11	٠	_	٥	• •	•	Ū	••
		370						3	90						41	.0			
			•																
ACC	GGG'			'GCI	'GCC	CAC	CGCC	CTC		AGO	SAAC	GGG	ACC	CCGC	GTT	· CA	rgao	3CT(عرر
ACC R		TTCA H		L L	GCC P	CAC T	CGCC P	CTC S		AGC G	GAAC R	GG <i>I</i> D	ACC(CCG(G	GTT F	CA! M	rgao S	CTC C	P
		TTCA H	ACGA E					S	TCC P						F	М			
R	v	TTCA H	ACGA E	L	P	Т.	P	S 4	TCC P	G	R	D	P	G	F 4	м 70 •	S	С	P
R	V GTC	TTCA H 430	E E	L	P	T • •GAO	P	S 4 GGGI	TCC P	G ACG	R AAC'	D rgc	P CCA	G CGC	F 4 - CCT	M 70 CTC	S CAG	C GAG	P GGG
R	V GTC	TTCA H	E E	L	P	T • •GAO	P	S 4 GGGI	TCC P	G ACG	R AAC'	D rgc	P CCA	G CGC	F 4 - CCT	M 70 CTC	S CAG	C GAG	P GGG
R	V GTC	TTCA H 430	E E) CCCF Q	L	P	T • •GAO	P	S 4 SGGT V	TCC P	G ACG	R AAC'	D rgc	P CCA	G CGC	F 4- CCT(S	M 70 CTC	S CAG	C GAG	P GGG
CAC	V GTC P	TTCA H 430 CTCI L	CGA E) CCF Q	L AGGÆ E	P AAGG G	GGAG T	P CCCC R	S 4 SGGT V	50 PCC/H	E 7CG1	R AAC' L	D rgCd P	P CCA T	G CGC P	F 4 CCTC S	M 70 .CTC	S CAG G	C GAG(G	P GGG D

590 • 570 550 CACGTCCTCTCCAGGAAGGGACCCGGGTCCACGAACTGCCCACGCGCTCTCCAGGAGGGG R P L Q E G T R V H E L P T R S P G G D 650 630 610 ACACCGGGTTCACGAGCTGCCCACGCCTCTCCAGGAAGGGACCCCGGGTTCACGAGCTG T G F T S C P R P L Q E G T P G S R A A 710 690 670 CCCACGTCCTCCAGGAGGGGACACCGGGTTCACGAGCTGCCCACGTCCTCCCAGGAG H V L S R R G H R V H E L P T S S P G G 750 730 GGGACACCGGGTTCACGAGCTGCCCACGCCCTCTCCAGGAGGGGACACCGGGTTCACGAG D T G F T S C P R P L Q E G T P G S R A 810 790 CTGCCCACGTCCTCTCCAGGAAGGGACCCGGGTCCACGAGCTGCCCACGTCCTCTCCAGG A H V L S R K G P G S T S C P R P L Q E 870 850 AGGGGACACCGGGTTCACGAGCTGCCCACGCACTTTCCAGGAAGGGACCCCGGGTTCAGG G T P G S R A A H A L S R K G P R V Q V 930 910 TCTCCTGCCGGCCCACATCGTGCCTTTGTGTAAATCAGAAGAAGATGAGGAACAGGCCC S C R P T S C L C V N Q K K D E E Q A L 1010 990 970 TCCTCTCTCCCAGGCAGGCTTTGGTGGAGGGGCTGGATCTCCTGCCGCACCTTCCCTGG L S L Q A G F G G G A G S P A A P S L A 1070 1050 G H P V L E P Q N C R R P A E K G S M M

		90						11							113				•
TGGC			~m~(-60	مدر	- Դարար	GGA	CCT	GCC	CCC	ATG	GAC	CTG	GGA	ACC	TCC	CGG	CTCI	T
TGGC(P	R	C	A	A	L	D	L	P	P	W	T	W	E	P	P	G	S	S
	1	150						11	70						119	0			
CCCA	~=~		71 TN TN	CC 7	אככ	ሮሞር	тсс	GCA	тсс	AGG	TCG	GCC	AGG	CCC	CAT	ccc	CGT	ACC	CT
	S			E	G	S	G	Н	G	G	R	P	G	P	I	P	V	P	W
	1	210						12	30						125	50			• .
GGCC			·~~	ССТ	ጥርር	יתכים	ייייי	TCP	· CTG	CCC	:CGG	GGC	CTI	TG	CACC	CTGC	TTA	.ccc	TC
GGCC P	F	F	L	L	P	V	C	Н	C	P	G	A	F	A	₽	A	F	P	L
	1	.270)					. 12	290						13	10			
TCTC				רי הוי הוי	ירית	- -	~ 12 cm c	raad	CAC	GC	rgg:	CT	CGA	ACT	CCT	GAC	CTC	AGAC	GA
TCTC	R	Q	G	F	S	S	L	A	R	L	V	S	N	S	*				•
	1	1330)					1	350						13	70			•
TCC	ACC	rgc	CTC	AGC	CTC	CCG	AAG'	TGT	TGG	GAT'	TAC.	AGG	CAC	GAG	CCA	.CTG	TGC	CCG	GCC
		139	-				•	_	410							30			•
ATC.	TTA	CCT	TTT	TAC	TGC	• TGA	CTA	ATA	GTC	TGC	TGT	GTG	TAA	CCF	4CCG	CTA	GAA	ACC	CAC
		145						_	470						_	190			•
TCA	TCA	GTT	GAT	GGT	CAT	GTG	GGT	TGC	TTC	TGC	TAT	TCC	CT	TAT!	TAT	GAAC	CAGI	GCT	GGA _.
		151						_	1530						_	550			٠. •
ATA	AAC	GTI	CCI	GTG	CAC	CTCT	TGC	GC <i>I</i>	OAT <i>P</i>	GCC	CTAC	GGA(GTG	GAA	CTG	CTG	GGT(CAAF	AAA
		157	70																
LAA	IAA!	AA.	VAAA	AA.	KAA/	AAA	Ą											•	

Figure 3C

		10						:	30						50)			
TCAC T	GAG S	CTGO	CCC P	ACG:	rcci P	TCT(L	CCAC Q	GGAJ E	AGG(P P		rtc <i>i</i> S	ACG! R	AGCI A	rgcc A	CCAC H	CGTC V	G V
		70						!	90			•			110) •			•
TCTC S	CAG R			ACC(P	GGG(STC S		GAG(S		CCC P	ACGʻ R	TCC' P	rct(L	Q Q	GGAI E	AAG(R	GAC(T	CCGG R	SG V
		130		-					50						17				•
TCCA H	CGA E	GCT(L	GGC A	CAC(T	STC(CTC' S	TGC A			GGA D	CCC P			CAC: T	GAG S	CTG(C	CCC. P	ACG: R	rc P
		190					·	2	10						23	0			•
CTCT L		GGA E		GAC T	CCC P	GGG G				TGC A	CCA H	.CGT V	CCT L		CAG R	GAA K	GGG G	ACC P	CC R
		250						2	70						29	0			•
GGG1				GCC P	CAC T				AGG G		GGA D	CCC P	CGG G	GTC S	CAC T	GAA N	CTG C	P P	AC R
		310						3	30						35	0			
GTC(CTCT L	CCA Q	.GGA E	AGG G	GAC T				ACG R			CCA H	V V	CCI L	CTC S	CAG R	GAG R	G G	AC H
		370						3	390						41	.0			
ACC	GGG: V	TCA H	CGA E	GCT L	GCC P	CAC	GCC P	CTC S	TCC P	CAGO G	R R	GGF D	P	CGC G	GTT F	'CA' M	GA01 S	GCTG C	CC P
		430)					4	150			,			4 -	70			•
	GTC(P	TCT L	CCA Q	AGGA E	AGG G	GAC T	CCC R	GGT V	rcc <i>i</i> H	ACGI E	AAC: L	rgc(P	CAC T	CGC(P	CCT(S	CTC P	CAG G	GAG(G	GGG D
		490)					į	510						5	30			
ACC P	CGG G	GTCC P	CACC R	AGC A	TGC A	CCC#	ACG: V	rcg' V	TCA. N	ACG G	GGA K	AGG G	GAC P	CCG G	GGT S	CCA T	.CGA	.GCT	GCC P
		550)						570						5	90			

Figure 4A

CACGTCC							-CTC		CAI	ነ ር ጥ (CAC	3CG(CTC'	TCC	AGG	AGG	GG
CACGTCC R P	TCT(L		E E	G G	JACC T	R	V	H	E	L	P	T	R	s	P	G	G	D
			_															
	610						63	30						65	0			_
ACACCGG	:Стт(CAC	GAG	CTG	CCG	ACG	CCC	· rct	CCA	GGA	AGG	GAC	CCC	GGG	TTC	ACG	AGC	TG
T G	F	T	s	С	P	R	P	, L	Q	E	G	T	P	G	S	R	A	A
															^			
	670							90						73				
CCCACGI	rcct	CTC	CAG	GAG	GGG	ACA	CCG	GGT	TCA	.CGA	GCI	GCC P	CAC T	GTC S	CTC	TCC P	AGG G	AG G
H V	L	S	R	R	G	H	R	٧	H	Ε	L	P	1	3	3	•	J	
							7	50						7:	70			
	730						-									- 00 00/	-	70G
GGGACA				GAG	CTC	CCC P	ACG R	CCC P	TCI L	CCF O	∖GG≀ E	JGG(G	GAO T	CAC P	G G	STTC S	R	A
DT	G	F	T	٥	C	-		•	_	_								
	790	١	٠				8	310						8	30			
CTGCCC.					•		- 2 00		~ C Tr (רחני	~CD	ССТ:	GCC	CAC	GTC	CTC	TCC	AGG
	ACGI V		CTC S		GGA/ K	AGGC G	ACC P	G	S	T	S	C	P	R	P	L	. Ō	E
A	•																	
	850)					1	B 70						8	90			
AGGGGA	CAC	-cc	ርጥጥ (CAC	GAG	CTG	ccci	ACG	CAC	TTT	CCA	.GGA	AGG	GAC	ccc	GGG	TTC	AGG
	P			R	A	A	H	A	L	s	F	K		; I	F	V	7 C) V
														,				
	91							930							950			
TCTCCT	rGCC	GGC			CGT	GCC	TTT	GTG	TAA	ATC	AGA	AGA)AA/ I)	TAE	GAGO E I)AAE) E	CAGO	SCCC A L
s	R	P	T	S	C	: L	, С	V	N	i Ç	2 1	` .	` .			_	_	
		_						990	`	•				1	010			
	97															CCT	ጥርር	Стее
TCCTC	TCTC	TCC	AGG	CAG	GCI	TTG	GTG	GAC	GGG G	CTC	GGA' G	rcr S	P	BCC A	GCA A	P	s	L A
ъ.	5 1	, ,	2		-			-										
	103	30					1	105	0					1	070	•		
		•	-m-c	~ m m/	- n C (~ A G	אארי	TGC	AGG	CGG	CCG	GCA	GAG	AAG	GGG	TCC	ATGA M M
CAGGG G	H I	2010	, I		E :	P (2 1	N	C	R	R	P	A	E	K	G	S	M M
		90						111							1130			
ጥርፍርር	CCT	CGG'	TGC	GCA	GCC	TTG	GAC	CTG	CCC	CCP	TG	SAC	CTG	GAG.	ACA	GGG'	TTT	S S
A	P	R	C.	A	A	L	D	L	P	P	W	Т	W	ĸ	Q	G	r	s s

1150	1170	1190
CATTGGCCAGGCTGGTCTC L A R L V S	GAACTCCTGACCTCAGACG N S *	ATCCACCTGCCTCAGCCTCCCG
1210	1230	1250
AAGTGTTGGGATTACAGGC	: ACGAGCCACTGTGCCCGGC	CATCATTCCTTTTTACTGCTGA
1270	1290	1310
CTAATAGTCTGCTGTGTGA	AATCCACCGCTAGAAACCCA	CTCATCAGTTGATGGTCATGTG
1330	1350	1370
GGTTGCTTCTGCTATTCGC	CTTATTATGAACAGTGCTGC	BAATAAACGTTCCTGTGCACTCT
1390	1410	1430
TGGGCATACGCCTAGGAG	TGGAACTGCTGGGTCAAAAI	AAAAAAAAAAAAAAAAAA

	10							30							5	50				•
TCACGAG T S	CTG(C	CCC <i>P</i>	ACG1 R	rcci P	PCT: L	CCA Q	GG <i>F</i> E	AGG G	GG <i>P</i>	ACC [CCG P	GG:	TC. S	ACG R	AG(A	TG A	CCC	CAC(GTC V	G V
	70							90							1	10				
TCTCCAG S R	GAA K	GGGI	ACC(CGG(G	GTC S	CAC T	GAO S	GCT C	GC(CCA P	CGT R	rcc P	TCT L	CC <i>F</i> Q	AGG. E	AAA I	AGG.	ACC T	CGG R	G V
	130							150			-				_	70				
TCCACGA H E	AGCT L	GGC A	CAC T	GTC S	CTC S	TGC A	CAG G	GAA F	g g	GAC D	P P	CGG G	GTC S	CAC T	CGA S	GC'	TGC C	P	CGI R	rc P
	190							210								30				
CTCTCC			GAC T	CCC P	GG(GTT(S	CAC F	GAC	GCT A	GC(A	CCA H	CG1 V	L CC'	rct S	CC <i>I</i>	AGG R	AA(K	G G	ACC P	CC R
	250							27								290				
GGGTCC V H	_	GCI L	P	CCAC T	CGT S	CCT S	CTC	CCA	GG <i>I</i> G	AAG R	GG <i>F</i> D	P P	CCG G	GGI	CC	ACG T	AA: N	CTG C	P	R
	31				_			33								350	•			
GTCCTC P I	TCC: Q			GGA T	CCC	CGG	GT'	TCA S	CG: R	AGC A	TG(A	CCC H	ACC 7	TC(CTC L	TC(S	CAG R	GAG R	GGG G	FAC H
	37	_						39								41				
ACCGGG							CCC P	TCI S	P	AG(G	AAE R	GGG I	AC(CCC P	GGG G	F F	CAI M	GAO S	GCT(C	GCC P
	43								50							47				
CACGT(CCTC P I	TCC	AGG E	AAG	GGZ	ACC T	CGG R	GT(V	CCF H	ACG. E	AAC I	TG	CCC P	ACG T	P	CTC S	P P	CAG G	GAG G	GGG D
		90							10								30			
ACCCG	GGT(CAC	GA(SCTO	GCĆ A	CAC H	GT V	CGT V	CA.	ACG	GGZ	AAG K	GG <i>I</i> G	P PCC(G G	GT) S	ACD I	CGA	AGC:	rgcc C I

	550						57	0						590				
CACGTC	CTCT	CCA	GGAZ	AGG	SAC	CCG	GTC	CAC	CGAZ	ACT(GCC	CAC	CGC	TCT	CCA	.GGA	GGG	G
R P	_		E	G	T	R	V	Н	E	L	P	T	R	S	P	G	G	D
														650	,			
	610						63											
ACACCG	GGTT F		GAG S	CTG(C	CCC.	ACG	CCC1 P	CTC	CCAC	GGA. F.	AGG G	GAC(T	CCC(P	GGI G	TCF S	ACG <i>I</i> R	AGCI A	rg A
T G	F	1	3	C	r	•	•	_	×	_								
•	670						69	90						710)			
CCCACG	സ്ക്ക	ርጥር	CNG	C A C	eee	ACA	CCGC	· GT	TCA	CGA	GCT	GCC	CAC	GTC	CTCI	rccz	AGG!	AG
H V			R	R	G	Н	R	v	Н	E	L	P	Т	s	S	P	G	G
	•																	
	730						7	50						770				
GGGACA	CCGG	GTT	CAC	GAG	CTG	CCC	ACG	ccc				.GGG	GAC.	ACC	GGG	TTC.	ACG.	AG
D I	, G	F	T	S	С	P	R	P	L	Q	E	G	. T	Р	G	S	R	A
	700						۵	10						83	0			
	790						0	10						-	•			
	•				•			•			•					m.c.m	~~~	· ·
CTGCCC					GAA	.GGG	ACC	CGG	GTC S	CAC	GAG S	CTG C	CCC	ACG R	TCC P	TCT L	CCA Q	GG E
	ACGT V		CTC S	CAG R	GAA K	G.	ACC P	G	GTC S	CAC T	GAG S	CTG C	CCC P	ACG R	TCC P	TCT L	CCA Q	GG E
		L			GAA K	G G	P	cGG G 70	GTC S	CAC T	GAG S	CTG C	P	ACG R 89	Р	TCT L	CCA Q	GG E
A F	850	L	S	R	K .	G.	P 8	G 70	S	T .	s	C	P	R 89	Р 0 •	'n	Q	E.
A I	850	L	S	R	K .	G.	P 8	G 70 .cgc	S	T .	s	C	P	R 89	0	'n	Q	E.
A I	850 ACACO	L	S	R	K	G TGC	P 8 CCA H	G 70	S	T	S	C	P AGGG	R 89 SACC P	P 0 CCG R	GG1	Q TCA	.GG
A I	850 ACACO	L CGGG G	S	R	K	G TGC	P 8 CCA H	G 70 .cgc	S	T	S	C	P AGGG	R 89 SACC	P 0 CCG R	GG1	Q TCA	.GG
A I	850 ACACC	L GGGG	S STTC S	R :ACG R	K SAGO A	G TGC A	P 8 CCA H 9	G 70 .CGC A 30	S CACT L	T TTC S	S CCAC R	C GGAA K AGAA	P AGGG G	R 89 SACC P 95	O CCG R	GGT V	Q TCA Q	. GG V
A FAGGGGAGG	850 ACACC	L GGGG	S STTC S	R :ACG R	K SAGO A	G TGC A	P 8 CCCA H	G 70 	S CACT L	T TTC S	S CCAC R	C GGA <i>I</i> K	G YGGG	R 89 SACC P	O CCCG R	GGT V	Q TCA Q	.GG V
A FAGGGGAGG	850 ACACC F P 910	L GGGG G P	S STTC S	R :ACG R	K SAGO A	G TGC A	P 8 CCCA H 9 TTTG C	G 70 CGC A 30	S CACT L	T TTC S	S CCAC R	C GGAA K AGAA	P AGGG G	R 89 SACC P 95	O CCCG R O	GGT V	Q TCA Q	. GG V
A FAGGGGA G TOTOCT	850 ACACAC P 910 FIGCCO	L CGGG G CGGGC P	S S S CCAC	R ACG R CATC	K AGC A	G . CTGC A	P 8 CCCA H 9 TTTG C	G 70	S L L IAAI N	T S S ATCA	S CCAC R AGA	C GGAF K AGAI K	P AGGG G G AAGA	R 89 SACC P 95 ATGA E	P 0 CCCG R 0 GGA E	GGT V VACA	Q Q Q AGGG	. GG V
A FAGGGGA G TOTOCT	850 ACACAC P 910 FIGCCO	L CGGGG G G G G G G G G G G G G G G G G	S S S CCAC	R ACG R CATC	K SAGO A	G . CTGC A	P 8 8 CCCA H 9 CTTG	G 70 . CGC A 30 . STGT V	S L L IAAI N	T TTTC S VTCA	S CCCAC R AGAL K	C C C C C C C C C C C C C C C C C C C	P AGGG G G AAAGA D	R 89 SACC P 95 ATGA E	P O CCCG R O GGGA E	GGGI V AACA Q	Q PTCA Q AGGC A	. GGG V
A FAGGGGA G TOTOCT	850 ACACAC P 910 FIGCCO	L CGGGG G G G G G G G G G G G G G G G G	S S S CCAC	R ACG R CATC	K SAGO A	G . CTGC A	P 8 8 CCCA H 9 CTTG	G 70 . CGC A 30 . STGT V	S L L IAAI N	T TTTC S VTCA	S CCCAC R AGAL K	C C C C C C C C C C C C C C C C C C C	P AGGG G G AAAGA D	R 89 SACC P 95 ATGA E	P O CCCG R O GGGA E	GGGI V AACA Q	Q PTCA Q AGGC A	. GGG V
A FAGGGGA G TOTOCT	850 ACACAC P 910 FIGCCO	L CGGGG G CGGCC P	S S S CCAC	R ACG R CATC	K SAGO A	G . CTGC A	P 8 8 CCCA H 9 CTTGG C G	G 70 . CGC A 30 . STGT V	S CACI L IAAI N	T TTTC S VTCA	S CCCAC R AGAL K	C C C C C C C C C C C C C C C C C C C	P AGGG G G AAAGA D	R 89 SACC P 95 ATGA E	P 0 .CCCG R 0 .GGGA E	GGGI V AACA Q	Q PTCA Q AGGC A	. GGG V
A FAGGGGA G TOTOCT	P 910 PGCCGC R 970	L CGGGG G CCCF Q	S CCAC T AGGG	R CATC S CAGG	K GAGC A CGTC C	G GCCTGC A	P 8 8 CCCA H 9 CTTTG C 9 GTTGG G 10	G 70	S CACT L N N	T TTTC S ATC; Q	S CCAC R AGAA K GAT S	C AGAI K CTCC	P AGGG G AAGA D CTGG	R 89 87 87 87 87 87 87 87 87 87 87 87 87 87	O . CCCG R . GGA E . LO . CACC P	GGT V ACA Q	Q PTCA Q AGGG A	. GGG V . CCC L

1090	1110		1130	
				· CCGGCTCTT
TGGCGCCTCGGTGCGCA	GCCTTGGACCTGC	CCCATGGA P W T	W E P	G S S
APRCA	A L D L P	F W 1	,,	
		•		
1150	1170		1190	
				• • •
CCCACTCGGGAAAGGAA	GGCTCTGGGCATG	GAGCTTTAI	TGAGGTATAGT R Y S	TGACAATICA *
H S G K E	G S G H G	Аьт	, K 1 5	
*				
1210	1230		1250	
-				
GGACGGTGTGCACTCA	AGGTATGCAGCATC	ACAACCTGA	ACACACGTAGGC	ATTGTGAAAT
90110001				
	1000		1310	1
1270	1290	l	1510	•
GAGTCCCACAATTGGG	CACACACTTA ATTA	CATCACCT'	TACATGGTTACT	TCTTTCTGTG
GAGTCCCACAA11GGG	CIAMITALOLIO			
			4054	
1330	1350)	1370)
•		, ,	CCCCAACATAG	rgagaccctgt
GTGAGAACACTAAATT	TTAAATAGAGGAC	ACACAGCCI		
1390	141	0	143	0
	•	•		
CTCTACAAATATAAAA	<u>AAATTATCTGGAC</u>	GTGGTGGTG	CACACCTGTGG	TCCCAGCTACT
2.450	147	0	149	0
1450			•	
TGGGAAGCTGAGGCTG	GAGAATCACTTGA	GCCTGGGAG	GCGGAGGTTGC	GGTGCACTCCA
1000111001				
		0	155	
1510	153			
GCCTGGGCGACAGAG	EGAGGCCCTATCTC	'AAATAAA'	TAAATAAAGGAC	ACATTCTTATC
GCCTGGGCGACAGAGG	30,3000001111			•
1570				
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		190						2	10						23	0			
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L	Q	E	G	T	P	G	s	R	A	A	H	V	L	S	R	K	G	P	R
		250						2	70						29	0			
GGG'	rcca	ACGA	GCT	GCC	CAC	GTC	CTC	TCC	AGG	AAG	GGA	CCC	CGG	GTC	CAC	GAA	CTG	ccc	CAC
v		E	L	P	T	S	S	P		R	D	P		S	T	N	С	P	R
		310						3	30						35	0			
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G	GAC T	P 910	G G	S	R	A CGT	A GCC	CCC# H	ACG(A	CACI L	S	R AGA	.AGA	G AAG	GACO P 9	CCC R 50	V AAC	CAGO	<i>!</i>	
G TCTC	GAC T	P 910	G G G J G G G G G G	S	R CAT	A CGT	A GCC	CCCF H	ACGO A 930 GTG'	CACT L L TAAI	S ATC	R AGA	.AGA	G AAG	GACO P 9 ATG	CCC R 50 AGC	V AAC	CAGO	, ecc	· ·
G TCTC	GAC T	P 910	GGG(CGG(CGG))	S	R CAT	A CGT	A GCC	CCCF H	ACGO A A 930	CACT L L TAAI	S ATC	R AGA	.AGA	G AAG	GACO P 9 ATG	CCC R 50	V AAC	CAGO	, ecc	· ·
TCTC S	GAC T CTC	910 R 970	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S CCA T	R CAT S	CGT C	GCC L	CTC	ACGC A 930 • STG' V	L L TAAA N	S ATC. Q	R AGA K	AGA	AAG	GACO P 9 ATG E	50 AGG	SAAC	CAGO	, SCC	C L
TCTC S	GAC T CTC	910 R 970	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S CCA T	R CAT S	CGT C	GCC L	CCCF H S TTTC C	ACGC A 930 • STG' V	L L TAAA N	S ATC. Q	R AGA K	AGA	AAG	GACO P 9 ATG E	50 AGG	SAAC	CAGO	, SCC	C L
TCTC S	GAC T CTC	910 R 970	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S CCA T	R CAT S	CGT C	GCC L	CTC	ACGC A 930 • STG' V	L L TAAA N	S ATC. Q	R AGA K	AGA	AAG	GACO P 9 ATG E	50 AGG	SAAC	CAGO	, SCC	C L
TCTC S	GAC T CTC C	910 R 970	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S CCA T	R CAT S	CGT C	GCC L	CCCF H STTTC C	ACGC A 930 • STG' V	L L TAAA N GGGG	S ATC. Q	R AGA K	AGA	AAG	GACG	50 AGG	SAAC	CAGO	, SCC	C L
TCTC S	GAC T CTC C	910 P 910 GCCCCR R 970 L 103	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	S CCA T AGG	R CAT S	CGT C	A GCC L TTTG	H STTTTC C GTG GTG	ACGG A 330 STG; V 999 GAG	L L IAAA N GGGG	S ATC. Q CTG	R AGA K	. AGA . K	G AAG CCTO	GACG	CCCC R 50 AGG F P10 CGCAC	V SAAC	CAGO) I	CT(.CCLGGA

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1210	1230	
CCAAATCCGCCCCCAACTC	CCTGTTACCGGCTCACTCC	TTCCATGAGGGGCCTTCCCCA
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		1050	
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GAGACCCTGTCTCTACA	AATATAAAAAAATTATCTGGAC	GTGGTGGTGCACACCTGTG	GT
1870	1890	1910	
CCCAGCTACTTGGGAAG	GCTGAGGCTGGAGAATCACTTGA	.GCCTGGGAGGCGGAGGTTG	CG
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		490	)						510						5	30			
ACC	CGG	GTCC	ACC	AGC	TGC	CCC2	ACG:	rcg:	rcai	ACG	GGA.	AGG	GAC	CCG	GGT	CCA	CGA	GCT	GCC

		550						57	70		590										
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		670						_	90							710					
CCCA H	CGT V	CCT	CTC S	CAG R	GAG( R	GGG. G	ACA H	CCG R		TCA H	CGA E	GCT L	GCC P	CAC T	GTC S	CTC! S	P P	AGG? G	AG G		
		730				•			50						77						
GGGA D	CAC T	ccee e	GTT F	CAC T	GAG S	CTG C	CCC P	ACG R		TCT L	CCA Q	GGA E	G G	GAC T	ACC P	GGG G	TTC: S	ACG. R	AG A		
		790						. 8							830						
CTGC A	CCC# H	ACGT V	CCT L	CTC S		GAA K	G G	ACC P	CGG G	GTC S	CAC T	GAG S	CTC	GCCC P	ACG R	TCC P	TCT L	CCA Q	GG E		
		850				•			70							890 ACCCCGGGTTCAGG					
AGG0 G			GGG G	STTC S	ACG R	AGC A	TGC A	CCA H		CACI L	TTC S	CAC R	GGAI K	AGG( G	SACC P	CCG R	GGT V	TCA Q	.GG V		
		910				930						950									
TCTO	CTC	_	GC( P	OAOC T	CATO	CGTC	L D	TTTO C	STG: V	LAA1 N	ATC) Q	AGA. K		AAG: D	ATG <i>I</i> E	AGG <i>I</i> E	AACA Q	AGGC	L		
	970								990				•		1010 GCCGCACCTTCCCTGG						
TCC'	TCT S	CTC: L	rcci Q	AGG A	CAG( G	GCT' F	TTG( G	GTG G	GAG G	GGG ⁽	CTG G	GAT S	CTC P	CTG A	CCG A	CAC P	CTT S	. L	rGG A		
		103							050						10						
CAG	GGC	ACC	CTG V	TGC L	TTG. E	AGC P	CCC	AGA N	ACT C	GCA R	.GGC R	:GGC	CGG	CAC	AGA E K	AGG G	GGT S	CCA M	TGA M		

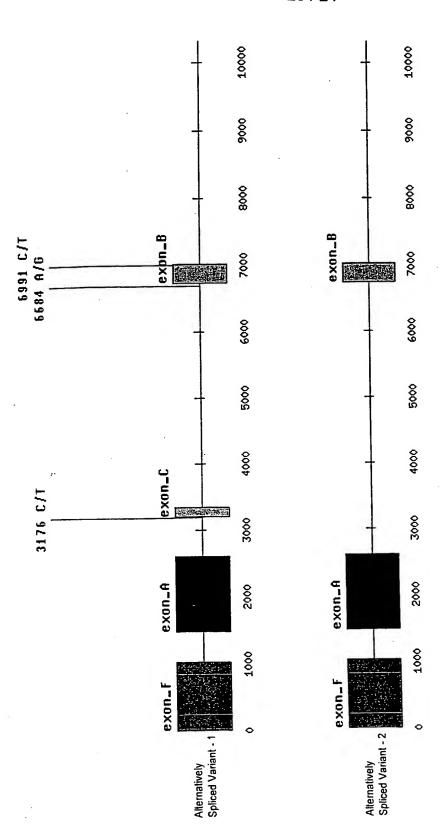
	1090												;	1130							
TCCCCC	ירייר	'GG'	тес	GCA	GCC	TTG	GAC	сте	SCC	CCE	TGG	SACC	TGG	GA	ACC:	rcc	CGGC	TCT	T		
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	115	50						117	70						119	0					
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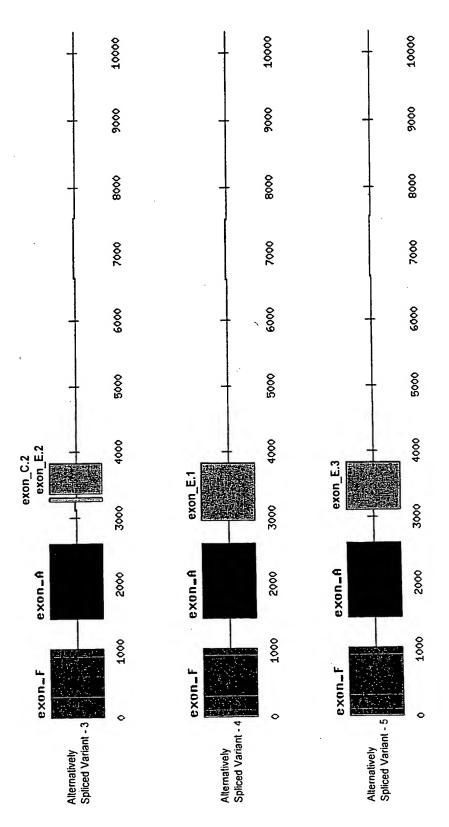
1730

AAAA



Alternatively Spliced Variants from Gene 214

Figure 8A



Alternatively Spliced Variants from Gene 214

Figure 8B



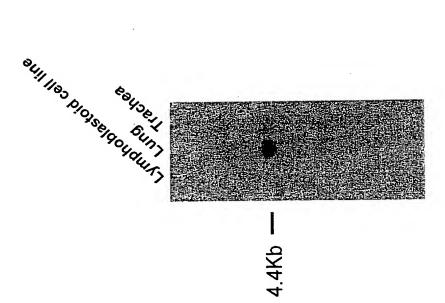


Figure 9

>Gene 214 Exon A TCACGAGCTGCCCACGTCCTCTCCAGGAAGGGACCCCGGGTTCACGAGCTGCCCACGTCG TCTCCAGGAAGGGACCCGGGTCCACGAGCTGCCCACGTCCTCTCCAGGAAAGGACCCGGG TCCACGAGCTGGCCACGTCCTCTGCAGGAAGGGACCCCGGGTCCACGAGCTGCCCACGTC CTCTCCAGGAAGGGACCCCGGGTTCACGAGCTGCCCACGTCCTCCCAGGAAGGGACCCC GGGTCCACGAGCTGCCCACGTCCTCCCAGGAAGGGACCCCGGGTCCACGAACTGCCCAC GTCCTCTCCAGGAAGGGACCCCGGGTTCACGAGCTGCCCACGTCCTCTCCAGGAGGGGAC ACCGGGTTCACGAGCTGCCCACGCCCTCTCCAGGAAGGGACCCCGGGTTCATGAGCTGCC CACGTCCTCTCCAGGAAGGGACCCGGGTCCACGAACTGCCCACGCCCTCTCCAGGAGGGG ACCCGGGTCCACGAGCTGCCCACGTCGTCAACGGGAAGGGACCCGGGTCCACGAGCTGCC CACGTCCTCTCCAGGAAGGGACCCGGGTCCACGAACTGCCCACGCGCTCTCCAGGAGGGG ACACCGGGTTCACGAGCTGCCCACGCCCTCTCCAGGAAGGGACCCCGGGTTCACGAGCTG CCCACGTCCTCCCAGGAGGGGACACCGGGTTCACGAGCTGCCCACGTCCTCCCAGGAG GGGACACCGGGTTCACGAGCTGCCCACGCCCTCTCCAGGAGGGGACACCGGGTTCACGAG CTGCCCACGTCCTCCAGGAAGGGACCCGGGTCCACGAGCTGCCCACGTCCTCTCCAGG AGGGGACACCGGGTTCACGAGCTGCCCACGCACTTTCCAGGAAGGGACCCCGGGTTCAGG TCTCCTGCCGGCCCACATCGTGCCTTTGTGTAAATCAGAAGAAGATGAGGAACAGGCCC TCCTCTCTCTCCAGGCAGGCTTTGGTGGAGGGGCTGGATCTCCTGCCGCACCTTCCCTGG TGGCGCCTCGGTGCGCAGCCTTGGACCTGCCCCCATGGACCTGG

>Gene 214 Exon_B
AGACAGGGTTTCTCCTCATTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGACGATCCAC
CTGCCTCAGCCTCCCGAAGTGTTGGGATTACAGGCACGAGCCACTGTGCCCGGCCATCAT
TCCTTTTTACTGCTGACTAATAGTCTGCTGTGTGAATCCACCGCTAGAAACCCACTCATC
AGTTGATGGTCATGTGGGTTGCTTCTGCTATTCGCTTATTATGAACAGTGCTGGAATAAA
CGTTCCTGTGCACTCTTGGGCATACGCCTAGGAGTGGAACTGCTGGGTC

>Gene 214 Exon C GAACCTCCCGGCTCTTCCCACTCGGGAAAGGAAGGCTCTGGGCATGGAGGTCGGCCAGGC CCCATCCCCGTACCCTGGCCCTTCTTCCTGCTTCCTGTTTGTCACTGCCCCGGGGCCTTT GCACCTGCATTCCCTCTCT

>Gene 214 Exon C.2
GAACCTCCCGCTCTTCCCACTCGGGAAAGGAAGGCTCTGGGCATGGAG

>Gene 214 Exon E.1 ATGCCAGTGATGCCTGAGGTCTGCAGGGCAGTGCATACGCTCACCGCCTGGCCGCTCAGG AGCCTGTGCTTGACCCCCAAATCCGCCCCCCAACTCCCTGTTACCGGCTCACTCCTTCCA TGAGGGGCCTTCCCCAGGGACAGCCGATGCTCTCCTGATGGCTCCTGCCCTTGCAGAGTG CTGCCCCCGCCTGCCCACCTGGCCTGGACCCTCGCCTGAGCCCCCTCAGGGCTCTGCGCC ACCTCAACCCAGGCGTTTGTTCCGCAGGAACCTCCCGGCTCTTCCCACTCGGGAAAGGAA GGCTCTGGGCATGGAGGTCGGCCAGGCCCCATCCCCGTACCCTGGCCCTTCTTCCTGCTT TTTATTGAGGTATAGTTGACAATTCAGGACGGTGTGCACTCAAGGTATGCAGCATCACAA CCTGACACACGTAGGCATTGTGAAATGAGTCCCACAATTGGGCTAATTAACACACCCATC ACCTTACATGGTTACTTCTTTCTGTGGTGAGAACACTAAATTTTAAATAGAGGACACACA GCCTGGGCAACATAGTGAGACCCTGTCTCTACAAATATAAAAAAATTATCTGGACGTGGT GGTGCACACCTGTGGTCCCAGCTACTTGGGAAGCTGAGGCTGGAGAATCACTTGAGCCTG AAATAAATAAAGGACACATTCTTATC

FIGURE 10A

>Gene 214 Exon F TATAGAGATCTTTATCACTGAGTAGATAGAACGTACATGAATGTACGAACAGTCCAGACG AGTAACTTGACTAGGATAAGATAGACAGTACCAACTAATGAGACAAGAAGAGGGAATCAT ATAGAATCATGTAGTCTGAGTCTAGCGAGTGTCGACATGATCACAAGCGAAATACAGACT. ATGAGAAGAGTAGAAATAATAAGTANACTGAGAAGAGAGGTCATATGTACATACAAATC AGTAAAGCAATAGAAATTGAATACATTATAAGCCACAGTTACAGAATTAGCCTAATTTAA CAACCATGGCAAGCGAGTTATATCAAACATAGAAGAGTAAACTCTATCGACCATGGGTAG GAACGAATAAAGGCGTCGAGAAGACAATAAGAATGCGTGTTAAACAGCAATACAAGAGAA TAGCACCACTGAAGCAGACCAAAGGCGTCACCGGGGAAGTAGGGAAGAGGCACCTCACAA GGAGAGGAAAGGGCAGTCCTGATTTTGAAAATTTCAGTGAAAAGACAGTGTTGTTCCCGG AGGCAGCTTAGTGATCCCGCATCGACTCTGAAGAGGACCCTGAGGGTAGGGGATTTTTTGG GCCTGACCGGCCTATGCTGAACGCCCACCGGGAATTCAGGGAGAAACACGGGGCCCCGGC AGAGGGAGGCCGCCCAGGCCTGGGGGCCTGGCGGCAGGGGATGAAGTGGACCAGAGCCCCG CAAATCCTAACGTGGGTGAGCAGTGAGCCTGTGTGGCTGCGAGTGGCTCCGTTTTGGGGC TGTTTGTTCCTGCAGCAAATGATGCCAGCCCTGACGGAACCAGTGCACGTCCACCACGAG CTGCCCACGTCCTCCCAGGAAGGGACCCGGGTCCACGAGCTGCCCACGTCCTCTCCAGG AAGGGACC